

Abstract for a paper to be presented at Present status and future prospects of X-ray  
Astronomy, March 14-16, 2011, Rome, Italy

Progress on the Slumped Glass X-ray Optics for the International X-ray Observatory

Robert Petre  
NASA Goddard Space Flight Center

NASA has been developing technology for the large area IXO mirror based on precise slumping of glass sheets into parabolic and hyperbolic mirror segments. Recent progress toward attaining the stringent IXO angular resolution requirement and demonstrating technical readiness of the slumped glass technology will be described. This includes a series of X-ray measurements of mirror segment pairs in a flight-like mount. Additionally, the plan for maturing the slumped glass approach over the next several years will be summarized.